YAMAHA

HTR-6180BL

7.1-Channel Digital Home Theater Receiver

NEW PRODUCT BULLETIN

Full support for HD audio formats ensures maximum enjoyment of all high definition sources. Other advantages include full HD 1080p video upscaling with 3 HDMI inputs, HD Radio™ tuner, as well as exclusive Yamaha features such as Pure Direct, YPAO sound optimization and four SCENE buttons.

1 High Sound Quality

- HD audio format support: Dolby Digital Plus, Dolby Digital TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio
- 7-channel 735W powerful surround sound (105W x 7)
- Digital ToP-ART and High Current Amplification
- Pure Direct for higher fidelity sound reproduction
- Burr-Brown 192kHz/24-bit DACs used in all channels
- Assignable amplifiers for bi-amp connection

2 High Picture Quality

- Analog video (480i or 480p) upscaling to full HD 1080p
- 1080p-compatible HDMI (3 in/1 out)
- Supports Deep Color (up to 36 bit), x.v.Color, a double speed Refresh Rates of 120Hz and 1080p/24Hz transmission, and Auto Lip-Sync compensation
- Analog video to HDMI digital video up-conversion and de-interlacing with TBC

3 Surround Realism

- Fine-tuned CINEMA DSP and Adaptive DSP Level
- Improved Compressed Music Enhancer
- Adaptive DRC (Dynamic Range Control)

4 Advanced Features

- 4 SCENE buttons offering greater operating ease (with 19 preset SCENE templates)
- HD Radio™ digital broadcast reception capability
- XM ready with XM HD Surround powered by Neural Surround
- SIRIUS Satellite Radio ready
- Improved YPAO for automatic speaker setup
- iPod compatibility via Yamaha Universal Dock
- Bluetooth (A2DP) compatibility with Yamaha Bluetooth® Wireless Audio Receiver (YBA-10)
- Superior multi-zone control compatibility

17 CINEMA DSP Programs	
Compatible Decoder Straight	
	Dolby Digital
	Dolby Digital EX
	Dolby Digital Plus
	Dolby Digital TrueHD
	DTS Digital Surround
	DTS 96/24
	DTS-ES Matrix 6.1
	DTS-ES Discrete 6.1
	DTS-HD High Resolution Audio
	DTS-HD Master Audio
	Dolby Pro Logic
	Dolby Pro Logic II Music
	Dolby Pro Logic II Movie
	Dolby Pro Logic II Game
	Dolby Pro Logic IIx Music
	Dolby Pro Logic IIx Movie
	Dolby Pro Logic IIx Game
	DTS Neo:6 Music
	DTS Neo:6 Cinema
	Neural Surround
	Circle Surround II Music
	Circle Surround II Cinema
CINEMA DSP Programs	**17**
CLASSICAL	Hall in Munich
	Hall in Vienna
	Chamber
LIVE/CLUB	Cellar Club
	The Roxy Theatre
	The Bottom Line
STEREO	7ch Stereo
ENTERTAINMENT	Sports
	Action Game
	Roleplaying Game
	Music Video
MOVIE	Standard
	Spectacle
	Sci-Fi
	Adventure
	Drama
	Mono Movie

HTR-6180BL 7.1-Channel Digital Home Theater Receiver

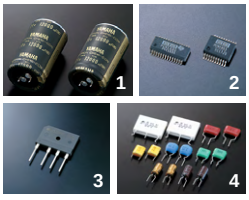
High Sound Quality

HD Audio Format Support

This receiver lets you enjoy the best possible and newest surround sound from both Blu-ray Disc players and HD-DVD players. It supports the two lossy formats: Dolby Digital Plus and DTS-HD High Resolution Audio, as well as the lossless formats: Dolby TrueHD and DTS-HD Master Audio.

Digital ToP-ART with Audio-Grade Parts and Devices Used Throughout

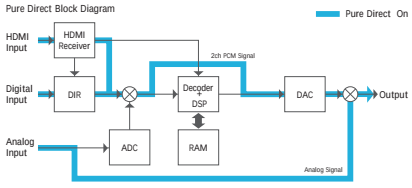
Yamaha's Digital ToP-ART concept combines the latest and best technologies, parts and circuit designs to maximize sound quality. These include a 12,000µF custom-made block capacitors (1), high grade Burr-Brown DACs and ADC (2), Schottky barrier diode for high S/N (3) and other high quality audio-grade parts (4).



The HTR-6180BL also has all channel discrete amplifier configuration. High Current Amplification circuitry achieves high current power with low impedance for superior amplifier performance.

Pure Direct for Highest Sound Quality

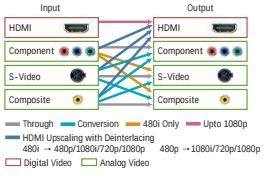
Pure Direct is a special mode that causes the signal to bypass all but the most basic audio circuitry, and even turns off the display to prevent any chance of noise interference. It provides the purest possible high-fidelity sound for your music sources.



High Picture Quality

Full HD 1080p Video Upscaling

The HTR-6180BL has not only analog video to HDMI digital video upconversion (i.e., composite video <-> S-Video <-> component video -> HDMI) capability for monitor out, but also analog video upscaling from 480i or 480p to 1080i, 720p or even 1080p.



1080p-Compatible HDMI (3 In/1 Out)

The HDMI interface upgrades the transmission of standard, enhanced and high-definition signals via a single HDMI cable, providing extremely high video quality. Three HDMI inputs allow users to connect three high-definition sources such as Blu-ray Discs or HD-DVD players and switch between them. The HTR-6180BL also provides the benefits of Deep Color (30/36bit), the x.v.Color standard, automatic audio and video synchronization (Lip-Sync) capability and 1080p/24Hz support.

Surround Realism

Fine-Tuned CINEMA DSP and Adaptive DSP Level

Yamaha's much-praised CINEMA DSP programs have been fine-tuned for even better sound with the latest generation CINEMA DSP technology*. As a result, the source and the sound field are in closer harmony, providing a delightful new CINEMA DSP experience.

When volume is low, CINEMA DSP effects may be difficult to hear. Adaptive DSP Level overcomes this problem by evaluating the difference between the volume level and a reference level, and adjusting the DSP level to ensure optimum effectiveness—that is, the best possible sound.

(*Note: CINEMA DSP programs are not compatible with Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.)

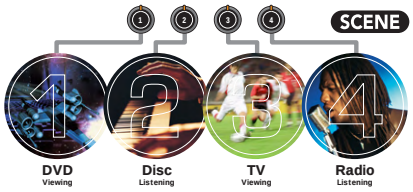
Advanced Features

HD Radio™ Tuner

HD Radio, the only digital broadcast system in America approved by the FCC, offers crystal-clear sound via existing AM/FM bands, including new HD2 and HD3 FM channels. It also provides program data and the ability to tune to multiple programs at the same dial position. Over 1,500 stations are on the air and no subscription is needed. The HTR-6180BL will display HD Radio information on the front panel and on your TV.

SCENE — Greater Operating Ease

Four SCENE buttons make operating the receiver easier than ever. Pressing a SCENE button automatically turns the power on and launches a number of operations that initiate play of the source controlled by that button. Many SCENE settings are also available, such as Dock Listening, Radio Listening, TV Sports Viewing and Game Playing (with 19 preset SCENE templates). Browsing and selecting the settings is quickly accomplished by rotating the Input knob and watching the on-screen display. The settings can be selected for one-time use, or they can replace the original default settings. When a Yamaha DVD or CD player with SCENE compatibility is connected to the Remote Out jack, it can be operated via the receiver's SCENE functions.



Improved YPAO Sound Optimization

The HTR-6180BL has an improved YPAO system that automatically selects the crucial frequency bands for the listening room, and adjusts the level of the selected bands to create a cohesive sound field in the room. You can vary the type of the parametric equalizer adjustment among Natural, Flat and Front. In addition, the YPAO Setup Menu appears when the YPAO mic is plugged in, so you can just run it using the system menu showing in the OSD without refering to the owner's manual.

Independent Operation of Zone 2

You can enjoy sound in a separate room (Zone 2) because the HTR-6180BL provides Zone 2 audio output. Furthermore, Zone 2 power amplifier assignability and speaker terminals mean that Zone 2 can be fully independent with its own 2-channel power, while you still enjoy 5.1-channel sound in the main room.

Other Notable Features

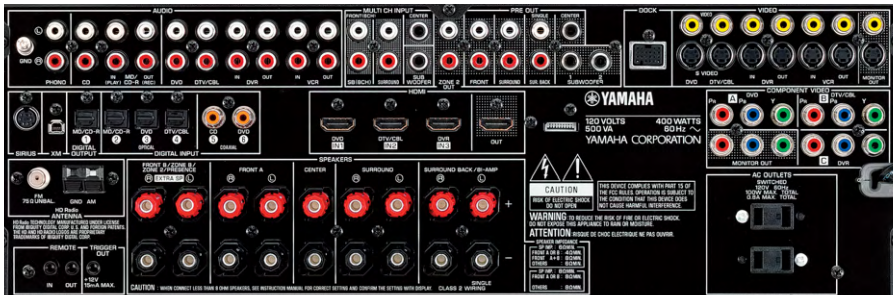
- XM ready with XM HD Surround powered by Neural Surround
- SIRIUS Satellite Radio ready
- 40-station preset tuning / Auto preset tuning
- HD Audio LPCM 7.1-channel reception (up to 192kHz)
- High dynamic power and Linear Damping
- Low Jitter PLL Circuitry
- Assignable amplifiers for bi-amp connection
- Initial Volume and Maximum Volume Setting
- iPod song titles displayed in English and Western European languages ISO 8859-1 (Latin 1) on the front panel and on-screen display
- Improved Compressed Music Enhancer with Straight Enhancer program
- Adaptive DRC (Dynamic Range Control)
- SILENT CINEMA and Virtual CINEMA DSP
- Preout terminals for front, center, surround and surround back, and dual mono subwoofer out
- 9 selectable subwoofer crossover frequencies
- Subwoofer phase select
- Front panel video Aux input terminals with optical digital and S-Video input terminals
- 8-channel or 6-channel external input
- Phono input
- Speaker A, B, A+B selection
- Preset remote unit with illuminated buttons
- Dialogue Lift for dialogue to screen center

Yamaha Bluetooth® Wireless Audio Receiver

The YBA-10 Bluetooth Wireless Audio Receiver docks to the receiver and supports A2DP audio streaming, so users can enjoy music wirelessly from Bluetooth-enabled mobile phones, Windows PCs and Macs.

Yamaha Universal Dock for iPod

The optional Yamaha Universal Dock lets you connect your iPod to the receiver.



Inputs	HDMI	3
	XM / SIRIUS Satellite Radio Terminal	1 / 1
	Dock Terminal (for iPod / Bluetooth)	1
	Optical Digital (Fixed and Assignable)*1 **	4
	Coaxial Digital (Fixed and Assignable)	2
	S-Video**	5
	Analog A/V / Audio**	5 / 3
	Component Video (Fixed & Assignable)	3
	Multi-Channel External Input	8ch

* Video Aux not assignable. ** Including front panel Video Aux terminals.

Outputs	HDMI	1
	Analog A/V / Audio	2 / 1
	Optical Digital (Fixed and Assignable)	1
	S-Video	2
	Component Video Monitor	1
	S-Video / Composite Monitor	1 / 1
	Speaker (without subwoofer)	7ch / 9 ter.
	Subwoofer	2
Others	Zone 2 Audio Out	1
	Remote In/Out	1 / 1
	Trigger Out	1

Main Specifications

Minimum RMS Output Power	
(8 ohms, 20 Hz–20 kHz, 0.06% THD)	
Front L/R Channels	105 W + 105 W
Center Channel	105 W
Surround L/R Channels	105 W + 105 W
Surround Back Channels	105 W + 105 W
Dynamic Power (1 kHz)	
8/6/4/2 ohms	140/175/205/250 W
Damping Factor	
(8 ohms, 20 Hz–20 kHz)	120 (speaker A)
Frequency Response	10 Hz–100 kHz +0, -3 dB
Total Harmonic Distortion (CD, Front Sp Out)	
(50 W/8 ohms)	0.06%
Signal-to-Noise Ratio (CD)	100 dB (250 mV)
Monitor Out Frequency Response	
Component Video Signal	5 Hz–100 MHz -3 dB
Dimensions (W x H x D)	$17^{1}/_{8}$" x $6^{3}/_{4}$" x $16^{1}/_{2}$"
	435 x 171 x 393 mm
Weight	26.2 lbs.; 11.9 kg

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